To: Meer, Daniel[Meer.Daniel@epa.gov]
Cc: Burgess, Michele[Burgess.Michele@epa.gov]
From: Serda, Sophia
Sent: Fri 4/8/2016 6:00:48 PM
Subject: RE: Speciation of Lead

Dan,

I understand for this type of analysis to work you have a distinct lead isotopic signature from the source. The main reason lead isotopes do not work is when the lead isotopic composition of the source is similar to background. All this I learned from my participation on the Lead TRW.

I am cc ing, Michelle Burgess, the Co-chair of the Lead TRW workgroup and she may have additional information.

Thanks, Sophia

Sophia Serda, MS, PhD

Toxicologist || EPA || Region 9 || Superfund || Community Involvement & Technical Support Branch

415-972-3057

Please be advised I currently have limited access to email when I am not in the office (e.g., on travel), therefore please be patient with any communication delays.

From: Meer, Daniel
Sent: Friday, April 08, 2016 10:28 AM
To: Serda, Sophia <Serda.Sophia@epa.gov>
Subject: Speciation of Lead

Sophia – do you know or do you know who we could ask, about whether it is possible to speciate lead in soil to determine source? This question has come up at the Exide site in Vernon, CA which is a DTSC lead but where we are being asked by elected officials about the clean up and source attribution.

The question is, are there analyses that could differentiate say the lead from a smelter or the lead from lead based paint, once it is mixed in soil? Is there an isotope type analysis that could give information about attribution to one source or another?

Thanks, Dan

Daniel A. Meer, Assistant Director

Superfund Division

Emergency Response, Preparedness and Prevention Branch

415.972.3132 (O)

415.971.6792 (C)